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## BIRD-RINGING RESULTS AND RINGED BIRD RECOVERIES IN ETHIOPIA

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A bird-ringing scheme commenced in Ethiopia in 1969, and remained active through 1980. Interim results and the totals ringed appeared in duplicated reports (Ash 1972-1975, 1977-1979) and one printed report (Ash 1976), but these had limited circulation and are not readily available. As active ringing has now ceased, except of *Quelea quelea* by W. Erickson in connexion with an FAO project, and there is little likelihood of any further recoveries, it is expedient to summarize all the results in one place.

An attempt was made, by contacting the main ringing schemes, to trace all the recoveries of ringed birds in Ethiopia, so the opportunity is also taken to publish all the recoveries known to me of ringed birds in the country. Some of these have incomplete data, and others may not have been traced, so I shall be grateful for *addenda* and *corrigenda* to the list included here.

The following participated in the ringing scheme during the years shown against their names, with individual ringing totals in parentheses:

Dr J.S. Ash, 1969-1977 (42 304); Dr R.W. Ashford, 1972 (296); C. Erard, 1971 (18); W. Erickson, 1977-1980 (12 410); Brother Edmund Johnson, 1974-1977 (250); G. Nikolaus, 1972-1976 (1516); Dr C.S. Olson, 1973-1975 (280); H. Pain, 1975-1976 (1194); Dr S.J. Tyler, 1973-1976 (2710); Dr E.K. Urban, 1973-1974 (325).

A grand total of 61 303 birds was ringed of 495 species during the period, but a degree of selection was involved, and only about half the birds captured were actually ringed. Those mainly ringed included the following: samples of 50 Afrotropical species in each of five areas in connexion with arbovirus studies, all Palaearctic migrants, all known intra-tropical migrants, and others in special studies (e.g. garden bird studies in Addis Ababa, a White Pelican study, etc.).

Only British Trust for Ornithology rings were used. The recovery rate was very low, as might be expected, for largely there is indifference to birds in Ethiopia, and most migrants leaving pass over large tracts of country with small human populations with a high degree of illiteracy - factors which militate against the reporting of recoveries. The only other bird-ringing undertaken in Ethiopia so far as I know is a small number (560) by a Swedish group (Broberg 1967), and some colour-ringing in 1968 in an Addis Ababa garden (Urban 1975). Other results from ringing in Ethiopia, in addition to the reports quoted above, have been published elsewhere, notably in Ash (1978a), Tyler (1979) and Urban & Jefford (1977).

The total list of species ringed is too long for inclusion here, but can be found in the separate annual reports. Table 1 includes only the totals of

Palearctic migrants ringed, together with those of other species for which recoveries were reported by the British Trust for Ornithology. For those Palearctic species which have Afrotropical representatives, such as Little Bittern, Scops Owl, Hoopoe, etc., only those are included for which subspecific identification was certain. Others which cannot be separated, such as Squacco Heron, are excluded.

TABLE 1

*Ringed totals of Palearctic migrants and of those other species for which recoveries were reported by the British Trust for Ornithology*

Species	Ringed	Recoveries
<i>Pelecanus onocrotalus</i> White Pelican	420	4
<i>Ixobrychus minutus</i> Little Bittern	14*	-
<i>Phoenicopterus ruber</i> Greater Flamingo	8	-
<i>Alopochen aegyptiaca</i> Egyptian Goose	22	1
<i>Anas acuta</i> Pintail	3	-
<i>Anas clypeata</i> Shoveler	2	-
<i>Anas querquedula</i> Garganey	8	-
<i>Circus aeruginosus</i> Eurasian Marsh Harrier	1	-
<i>Circus macrourus</i> Pallid Harrier	6	-
<i>Circus pygargus</i> Montagu's Harrier	2	-
<i>Accipiter tachiro</i> African Goshawk	17	1
<i>Buteo augur</i> Augur Buzzard	35	2
<i>Buteo buteo</i> Common Buzzard	2	-
<i>Milvus migrans</i> Black Kite	25	1
<i>Falco chicquera</i> Red-necked Falcon	4	1
<i>Falco peregrinus</i> Peregrine Falcon	1	-
<i>Coturnix coturnix</i> Quail	4	-
<i>Crex crex</i> Corncrake	2	-
<i>Porzana porzana</i> Spotted Crake	1	-
<i>Charadrius alexandrinus</i> Kentish Plover	8	-
<i>Charadrius asiaticus</i> Caspian Plover	1	-
<i>Charadrius dubius</i> Little Ringed Plover	77	-
<i>Charadrius hiaticula</i> Ringed Plover	94	-
<i>Charadrius mongolus</i> Mongolian Sandplover	1	-
<i>Pluvialis squatarola</i> Grey Plover	1	-
<i>Vanellus spinosus</i> Spur-winged Plover	471	2
<i>Actitis hypoleucos</i> Common Sandpiper	451	-
<i>Tringa glareola</i> Wood Sandpiper	666	-
<i>Tringa nebularia</i> Greenshank	17	-
<i>Tringa ochropus</i> Green Sandpiper	42	-
<i>Tringa stagnatilis</i> Marsh Sandpiper	188	-
<i>Tringa totanus</i> Redshank	20	-
<i>Xenus cinereus</i> Terek Sandpiper	21	-
<i>Gallinago gallinago</i> Common Snipe	177	-
<i>Gallinago media</i> Great Snipe	3	-
<i>Calidris alpina</i> Dunlin	1	-
<i>Calidris ferruginea</i> Curlew Sandpiper	268	-
<i>Calidris minuta</i> Little Stint	1390	1
<i>Calidris temminckii</i> Temminck's Stint	233	-
<i>Limicola falcinellus</i> Broad-billed Sandpiper	2	-

Table 1, Continued

Species	Ringed	Recov
<i>Limosa limosa</i> Black-tailed Godwit	3	-
<i>Philomachus pugnax</i> Ruff	558	2
<i>Arenaria interpres</i> Turnstone	1	-
<i>Pluvianus aegyptius</i> Egyptian Plover	36	2
<i>Larus ridibundus</i> Black-headed Gull	4	-
<i>Clidonias leucopterus</i> White-winged Black Tern	17	-
<i>Gelochelidon nilotica</i> Gull-billed Tern	1	-
<i>Pterocles quadricinctus</i> Four-banded Sandgrouse	22	1
<i>Streptopelia decipiens</i> Mourning Dove	1655	2
<i>Streptopelia lugens</i> Dusky Turtle Dove	126	1
<i>Streptopelia turtur</i> Turtle Dove	30	2
<i>Cuculus canorus</i> Eurasian Cuckoo	7	-
<i>Asio flammeus</i> Short-eared Owl	1	-
<i>Otus scops</i> Scops Owl	22*	-
<i>Caprimulgus europaeus</i> Eurasian Nightjar	15	-
<i>Apus apus</i> Eurasian Swift	1	-
<i>Ceryle rudis</i> Pied Kingfisher	271	3
<i>Halcyon leucocephala</i> Chestnut-bellied Kingfisher	562	2
<i>Merops apiaster</i> Eurasian Bee-eater	3	-
<i>Merops persicus</i> Blue-cheeked Bee-eater	3	-
<i>Upupa epops</i> Hoopoe	74*	1
<i>Jynx torquilla</i> Eurasian Wryneck	86	1
<i>Hirundo rustica</i> Eurasian Swallow	1019	4
<i>Riparia riparia</i> Sand Martin	382	1
<i>Oriolus oriolus</i> Golden Oriole	15	1
<i>Pycnonotus barbatus</i> Common Bulbul	1440	1
<i>Cercotrichas galactotes</i> Rufous Bush Chat	25	-
<i>Irania gutturalis</i> Irania	19	-
<i>Luscinia luscinia</i> Sprosser	154	-
<i>Luscinia megarhynchos</i> Nightingale	510	1
<i>Luscinia svecica</i> Bluethroat	25	-
<i>Monticola saxatilis</i> Rock Thrush	7	-
<i>Monticola solitarius</i> Blue Rock Thrush	2	-
<i>Oenanthe hispanica</i> Black-eared Wheatear	2	-
<i>Oenanthe isabellina</i> Isabelline Wheatear	32	-
<i>Oenanthe oenanthe</i> Northern Wheatear	12	-
<i>Oenanthe pleschanka</i> Pied Wheatear	56	-
<i>Phoenicurus phoenicurus</i> Redstart	294	-
<i>Saxicola rubetra</i> Whinchat	24	-
<i>Saxicola torquata</i> Stonechat	18*	-
<i>Turdus abyssinicus</i> Northern Olive Thrush	168	2
<i>Turdus litsipsirupa</i> Groundscraper Thrush	9	1
<i>Turdus philomelos</i> Song Thrush	6	-
<i>Acrocephalus arundinaceus</i> Great Reed Warbler	100	-
<i>Acrocephalus griseldis</i> Basra Reed Warbler	61	1
<i>Acrocephalus palustris</i> Marsh Warbler	77	-
<i>Acrocephalus schoenobaenus</i> Sedge Warbler	89	-
<i>Acrocephalus scirpaceus</i> Reed Warbler	1158	1
<i>Acrocephalus stentoreus</i> Clamorous Reed Warbler	2	-
<i>Hippolais icterina</i> Icterine Warbler	3	-

Table 1, Continued

Species	Ringed	Recov
<i>Hippolais languida</i> Upcher's Warbler	8	-
<i>Hippolais pallida</i> Olivaceous Warbler	297	-
<i>Locustella fluviatilis</i> River Warbler	11	-
<i>Locustella luscinioides</i> Savi's Warbler	68	-
<i>Locustella naevia</i> Grasshopper Warbler	6	-
<i>Phylloscopus collybita</i> Chiffchaff	406	-
<i>Phylloscopus sibilatrix</i> Wood Warbler	1	-
<i>Phylloscopus trochilus</i> Willow Warbler	1232	-
<i>Sylvia atricapilla</i> Blackcap	902	4
<i>Sylvia borin</i> Garden Warbler	361	-
<i>Sylvia communis</i> Whitethroat	505	-
<i>Sylvia curruca</i> Lesser Whitethroat	246	-
<i>Sylvia hortensis</i> Orphean Warbler	28	-
<i>Sylvia mystacea</i> Ménétries' Warbler	27	-
<i>Sylvia nisoria</i> Barred Warbler	162	-
<i>Muscicapa striata</i> Spotted Flycatcher	91	-
<i>Anthus cervinus</i> Red-throated Pipit	204	-
<i>Anthus trivialis</i> Tree Pipit	141	-
<i>Motacilla alba</i> White Wagtail	36	-
<i>Motacilla cinerea</i> Grey Wagtail	7	-
<i>Motacilla flava</i> Yellow Wagtail	1162	1
<i>Dryoscopus gambensis</i> Northern Puffback	36	1
<i>Lanius collurio</i> Red-backed Shrike	42	-
<i>Lanius isabellinus</i> Red-tailed Shrike	33	-
<i>Lanius nubicus</i> Nubian Shrike	54	1
<i>Lanius senator</i> Woodchat Shrike	2	-
<i>Creotophora cinerea</i> Wattled Starling	527	1
<i>Lamprotornis chalybaeus</i> Blue-eared Glossy Starling	510	1
<i>Nectarinia tacaze</i> Tacazze Sunbird	228	1
<i>Ploceus baglafecht</i> Baglafecht Weaver	236	1
<i>Ploceus taeniopterus</i> Northern Masked Weaver	819	2
<i>Passer griseus</i> Grey-headed Sparrow	491	1
<i>Hypochoera chalybeata</i> Indigobird	502	1
<i>Emberiza hortulana</i> Ortolan Bunting	31	-

\*Palaeartic migrant races only totalled.

#### RECOVERIES

In 1972 I circulated a list of all recoveries of birds known at that time in Ethiopia to 51 major ringing schemes asking for additions and amendments. The following were written to; those marked with one asterisk replied, stating that there were no additional data; those marked (\*) stated that it was not possible to check their records, and those with two asterisks sent additional data; there was no reply from the others: Angola: Dr Pinto, Dr Santos. Belgium: Brussels. Bulgaria: Sofia\*\*. Channel Islands: Jersey. Cyprus: Cyprus Ornithological Society, Dr G.E. Watson. Czechoslovakia: Prague. Denmark: Dansk Ornithologisk Central\*, Ringmærknings Afdelingen\*, Kalo\*, Copenhagen\*. East Germany: Hiddensee\*. Egypt: Dr G.E. Watson. Estonia: Lihula\*. Ethiopia: Dr E.K. Urban. Finland: Helsinki\*. France: CRMMO. Hungary: Budapest. Iceland: Reykjavik. India: Dr Salim Ali. Iran: Dr D.A. Scott\*. Italy: Bologna. Jordan: Dr G.E. Watson. Kenya: Nairobi. Morocco: Rabat\*. Netherlands: Arnhem\*. Nigeria: Dr C.H.Fry.

Norway: Vollebakk(\*), Stavanger\*. Poland: Varsovia\*\*, Dr W. Rydzewski\*\*. Portugal: Oporto\*. Romania: Bucarest. Senegal: Dr G. Morel. South Africa: Rondebosch\*. South West Africa: Dr R.A.C. Jensen. Spain: Grupo de Ciencias Naturales Aranzadi, Madrid. Sweden: Norrköping\*, Stockholm(\*). Switzerland: Sempach\*. U.K.: B.T.O\*. U.S.S.R.: Moscow. West Germany: Helgoland\*\*, Radolfzell\*\*. Yugoslavia: Zagreb. Zaire: Dr De Bont. Zambia: R.J. Dowsett. Zimbabwe: Dr R.M. Harwin.

The earlier results of such schemes as Radolfzell, Helgoland, and Rossitten are difficult to trace, and are probably incomplete, but some recoveries have been found in the literature. In addition, Gerhard Nikolaus kindly searched the Helgoland data files and was able to locate many recoveries, and the late Dr W. Rydzewski provided a valuable list. However, no exhaustive search of the literature has been possible.

From the 61 303 birds ringed in 1969-1980 only 58 recoveries were notified to the B.T.O. and passed to me (0.09 per cent), and of these only 30 were found in Ethiopia. As the value of ringing in Ethiopia largely lies in the need to recognize individuals in special studies, any recovery is to be regarded as a bonus, and almost every one of them is of special value, and provides new knowledge from an area that is virtually unknown as far as bird movements are concerned. Of the known 14 619 Palaearctic migrants ringed, 21 recoveries (0.14 per cent) were reported through the B.T.O. compared with 37 (0.07 per cent) from the other species. However, only two of the Palaearctic migrants were recovered in Africa (0.01 per cent), the remainder being recovered outside (0.13 per cent). Thus the chances of a ringed migrant being recovered outside Africa is 13 times greater than within the continent, and about two times greater than a non-Palaearctic migrant being recovered within Africa. This does not necessarily mean that its chance of survival is less outside Africa (although it may be), but that the chance of its ring being reported is greater. There are seven times fewer (0.01 per cent) Palaearctic migrants recovered within Africa than there are Afrotropical species (0.07 per cent), which suggests a lower mortality rate for the migrants within the continent, not allowing for the fact that they may be there for only about half the year. However, so many interacting factors are involved that the figures do not justify further analysis.

Table 2 details recoveries of birds ringed in Ethiopia, all by the present scheme (i.e. with B.T.O. rings), and recovered elsewhere, and of birds ringed in other countries and reported from Ethiopia. Recoveries within Ethiopia exclude a huge number of retrapped birds at the site of ringing, as well as others showing only local movements. Nomenclature and sequence, as in Table 1, follow Britton (1980). The conventions and symbols used follow Spencer & Hudson (1978), with the following additional abbreviations used for foreign ringing schemes: *BTO* - British Trust for Ornithology, *Mort.* - Mortensen.

In addition, the time elapsing between ringing and recovery follows Backhurst's (1974) convention, e.g. 1:7:13 indicates 1 year, 7 months and 13 days. For ease of reference the White Stork recoveries are grouped in numerical order under their respective ringing schemes, but only the first recovery in each group is identified by its scheme.

Geographical co-ordinates are given in degrees and minutes but the symbols for these units are omitted. Data given in parentheses are approximate while those enclosing the recovery date have the added meaning of denoting the date of the reporting letter (Spencer & Hudson 1978).

Besides the long series of White Stork recoveries, there are many others of special interest. Of particular note is the Squacco Heron, which is, I believe, the first more-than-presumptive evidence for a Eurasian bird in eastern Africa (vide Moreau 1972); the Terek and Curlew Sandpipers were presumably on trans-African migration northwards from South Africa, although the latter was



probably a non-breeding bird stopping-over in Ethiopia for the northern summer; a Ruff from the farthest extremity of its range in Siberia; evidence for intra-tropical migration in Egyptian Plover, Pied and Chestnut-bellied Kingfishers; evidence for the origin of east African Turtle Doves from the southern U.S.S.R.; an overwintering Eurasian Wryneck in Addis Ababa; a Nightingale from Armeniya confirming its identification as the race *L. m. africana*; four Blackcaps from Syria and Lebanon, and the first record for a Eurasian Starling from south of the Sahara (although since then there has been another, a sight record).



Fig. 1. Map showing ringing sites of ringed birds recovered in Ethiopia, and localities where birds ringed in Ethiopia were recovered. Key opposite

TABLE 2  
Recoveries involving Ethiopia

Note: where no country name is given, the locality is in Ethiopia.

*PELECANUS ONOCROTALUS* WHITE PELICAN

Z302--	1	May/Jun 72	Lake Shalla, 7.27N 38.28E, (Shoa).
	vv	21.06.72	Dit Bahari, 11.32N 41.16E, (Harrar), 548 km (0:1:0); seen until 05.07.72.
Z302--	1	May/Jun 72	Lake Shalla.
	vv	21.06.72	Dit Bahari; seen until 05.07.72.
Z33---	1	Apr/May 73	Lake Shalla.
	vv	08.08.73	Nderit River, 00.20S 36.05E, Lake Nakuru, KENYA, (0:3:0), 904 km; also seen 09.08.73.
Z33526	1	21.04.73	Lake Shalla.
	+	08.05.73	10 km W of Asosa, 10.02N 34.26E, (Wollega), 528 km, 0:0:17.
Z33581	1	26.05.73	Lake Shalla.
	+	03.06.73	Shenon, 8.23N 37.28E, (Shoa), 151 km, 0:0:8.
Z33657	1	04.05.74	Lake Shalla.
	X	27.05.74	Kwetu Farm, 00.29S 36.19E, Gilgil, KENYA, 913 km, 0:0:23.
Z33---	1	01.06.74	Lake Shalla.
	vv	15.06.74	Lake Langano, 7.34N 38.51E, (Shoa), 44 km, 0:0:14.

The first three records and the last are sightings of birds with coloured markers. Z33581 was reported killed whilst eating sheep!

*ARDEA CINEREA* GREY HERON

Varsovia	1	25.05.71	Krzyzowiec Forest Range, 51.56N 16.23 E, Wlosza-kowice, Leszno, POLAND.
	/?/	(00.07.73)	Ethiopia.

Table 2 continued overleaf

KEY TO RECOVERIES

A White Pelican 2	M Ruff 1	W Basra Reed W'bler 1
B Grey Heron 1	N Terek Sandpiper 1	X Reed Warbler 1
C Squacco Heron 1	O Egyptian Plover 2	Y Eurasian Swallow 4
E Black Stork 2	P Lesser Black-backed Gull 6	Z Sand Martin 1
F Greater Flamingo 3	Q Caspian Tern 1	a Nubian Shrike 1
G Lesser Flamingo 1	R Pied Kingfisher 1	b Golden Oriole 1
H Black Kite 2	S Chestnut-bellied Kingfisher 2	c Yellow Wagtail 1
J Common Buzzard 1	T Hoopoe 1	d Eurasian Starling 1
K Curlew Sandpiper 1	U Nightingale 1	e Turtle Dove 2
L Little Stint 1	V Blackcap 4	f Osprey 1

D and the hatched area indicate where the 54 White Storks recovered in Ethiopia were ringed.

*ARDEOLA RALLOIDES* SQUACCO HERON

Moscow	1	20.06.74	Kzyl-Agach Reserve, Lenkoran, Azerbaijan, USSR,
E889558			39.00N 48.50E.
	v	13.09.75	Koka, 8.27N 39.06E, (Shoa), 3531 km, 1:2:24.
			Reringed BTO EF72162.

*CICONIA ABDIMII* ABDIM'S STORK

1080---	1	10.06.72	Lake Shalla, 7.27N 38.28E, (Shoa).
	vv	07.07.72	Debre Zeit, 8.44N 38.59E, (Shoa), 154 km, 0:0:27.

*CICONIA CICONIA* WHITE STORK

Bucarest	1	24.06.66	Sf. Gheorghe, 44.55N 29.34E, Danube Delta, ROMANIA.
B1910	/?/	late 11.66	'Around Gondar', (12.37N 37.27E), (Begemdir), (0:5:0), (3666 km).
Budapest	1	summer 25	Komajati, Abauj [untraced] HUNGARY.
9373	+	00.12.26	Adua, 14.09N 38.53E, (Tigre), (1:6:0).
Helgoländ	1	12.07.69	Böhme, 52.47N 9.28E, (Lüneburg), WEST GERMANY.
E2840	X	02.07.70	Golgol, 14.07N 38.44E, (Tigre), 5011 km, 0:11:20.
H4108	1	10.07.58	Grosswisch, 53.51N 9.22E, (Schleswig Hostein), WEST GERMANY.
	X	(14.03.61)	Wollo Province, (2:8:4).
H9141	1	14.06.63	Freiburg-Laak, 53.49N 9.17E, (Stade), WEST GERMANY.
	/?/	(04.12.64)	SW of Lake Tana, (Gojjam), (1:5:21).
H7211	1	18.06.62	Rethem, 52.47N 9.23E, Aller, WEST GERMANY.
	X	(12.02.63)	Sinna, (7.05N 40.10E), (Bale), (0:7:25), (5793 km).
205062	3	00.00.34	Commerau b. Klix, 51.16N 14.32E, EAST GERMANY.
	( )	(29.01.35)	Dera, 10.10N 38.59E, Salale, (Shoa), (0:7:0), 5079 km.
207671	1	14.07.31	Oersdorf/Segeberg, 53.55N 10.20E, WEST GERMANY.
	/?/	00.00.32	Adi Quala, 14.37N 38.50E, (Eritrea), 5021 km. [see notes]
207671	1	00.00.36	Rosenberg, 53.40N 11.14E, EAST GERMANY.
	+	12.04.38	38 km from Asmara, 15.20N 38.55E, 4829 km. [see notes]
210488	1	08.07.32	Thedinghausen, 53.00N 9.05E, Bremen, WEST GERMANY.
	( )	(22.09.33)	Gondar, 12.36N 37.28E, (Begemdir), (1:2:0), 5144 km.
212595	1	summer 39	Oberneuland, 50.30N 17.20E, Nysa, now POLAND.
	X	09.12.39	Combocia, 11.04N 39.43E, (Wolo), (0:6:0), 4834 km.
212946	3	10.07.33	Malini, 50.31N 18.18E, POLAND.
	/?/	29.08.36	S of Lake Tana, 11.35N 37.22E, (Gojjam), 3:1:19, 4662 km.
222133	1	27.06.57	Ochsenwerder, 53.29N 10.05E, Hamburg, WEST GERMANY.
	X	20.11.58	Asmara, 15.20N 38.58E, (Eritrea), 1:4:23, 4959 km.
223477	1	20.06.41	Fallersleben, 52.25N 10.44, WEST GERMANY.
	+	00.11.41	Lake Tana, (12.00N 37.18E), (0:5:0), (5080 km).



226999	?	01.07.39	Nysa, 50.30N 17.20E, POLAND.
	/?/	23.12.39	Between Quozien Mariam and Blue Nile, 0:5:22.
230716	1	08.07.47	Bekmünde, 53.55N 8.30E, WEST GERMANY.
	X	00.11.47	Bishoftu, 8.44N 38.59E, (Shoa), (0:4:0), 5708 km.
232981	1	21.06.51	Glückstadt, 53.47N 9.26E, Holstein, WEST GERMANY.
	X	(13.06.61)	Between Gore and Goba, 9.03N 38.42E, (Bale), 5613 km.
234676	1	09.07.53	Hemke, 52.24N 7.55E, Niedersachsen, WEST GERMANY.
	+	(13.06.61)	Between Gore and Goba, 5560 km.
238147	1	09.07.55	Wathlingen, 52.32N 10.09E, Lüneburg, WEST GERMANY.
	/?/	14.12.55	Gambela, (Tigre), 0:5:5. [see notes]
240504	1	09.07.55	Stellau/Wrist, 53.50N 9.45E, WEST GERMANY.
	+	00.12.57	Bahar Dar, 11.32N 37.25E, (Gojjam), (2:5:0), 5296 km.
242017	1	24.06.59	Artlenburg, 53.23N 10.28E, Lüneburg, WEST GERMANY.
	+	(09.12.60)	Tigre Province, (14N 38E), (1:5:0), (5000 km).
244928	1	10.07.68	Altrathjensdorf, 54.14N 11.00E, Oldenburg, WEST GERMANY.
	+	autumn 68	Dembi Woreda, 12.39N 37.29E, (Begemdir), 5169 km.
<i>Hiddensee</i>	1	11.07.73	Mühro, 52.01N 12.15E, Zerbst, EAST GERMANY.
8664	X	24.10.73	Near Woliso, 8.32N 37.59E, (Shoa), 0:3:13, 5367 km.
<i>Kaunas</i>	3	26.06.31	Sebaucius, 55.42N 24.50E, LITHUANIA.
B116	/?/	00.00.32	Danya, 6.30N 37.40E, (Gemu Gofa), 5584 km.
<i>Mort.</i>	3	17.07.19	Varde, 55.37N 8.23E, Janderup, DENMARK.
1638	( )	24.10.19	Near Adua, 14.09N 38.53E, (Tigre), 0:3:7, 5296 km.
<i>Radolfzell</i>	1	21.06.58	Horka, 51.17N 14.54E, (Niesky), EAST GERMANY.
B51671	+	00.11.58	Teramni, 14.30N 39.00E, (Eritrea), (0:5:0), 4619 km.
BB994	1	06.06.68	Limnochorion, 40.37N 21.34E, Florina, GREECE.
	X	(16.12.68)	Engiabaia, 10.59N 37.00E, (Gojjam), (0:6:10), 3624 km.
BB8095	1	05.07.55	Bietikow, 53.19N 13.52E, Uckermark, EAST GERMANY.
	+	(14.02.56)	Kreis Bule, 6.20N 38.50E, (Sidamo), (0:7:9), 5688 km.
BB8720	1	29.06.57	Limberg, 51.43N 14.21E, Cottbus, EAST GERMANY.
	+	01.01.58	Wadla-Dawmt, 11N 39E, (Wollo), 0:6:3, (5040 km).
BB8743	1	29.06.58	Sergen, 51.42N 14.30E, Cottbus, EAST GERMANY.
	/?/	early 03.63	Kloster Dinssa Kidanne Meheret, 12.36N 37.10E, near Bahar Dar, (Gojjam), (4:8:0), 4797 km.
BB9262	1	24.06.62	Hofenstetten, 49.20N 12.15E, Oberpfalz, WEST GERMANY.
	/?/	09.11.62	S of Lake Tana, (Gojjam), 0:4:14.
BB13458	1	17.07.60	Molkenberg, 52.42N 12.13E, Magdeburg, EAST GERMANY.
	/?/	(17.01.61)	Begemdir Province, (0:6:0).
BB13668	1	25.06.60	Blindow, 53.22N 13.53E, Neubrandenburg, EAST GERMANY.
	X	(17.01.61)	Tigre Province, (0:6:23).
BB15556	1	07.07.66	Grosspetersdorf, 47.14N 15.19E, Burgenland AUSTRIA.
	/?/	end 11.66	Near Harar, 9.20N 42.10E, (0:4:20), (4912 km).

Rossitten	2	?	? [ringing data untraced]
1282	/?/	05.03.40	Near Bishoftu, 8.45N 38.58E, (Shoa).
B31480	3	28.06.33	Lugowen, 54.37N 21.50E, Chernyakhovsk, USSR.
	+	05.03.34	Engababa, 10.58N 36.58E, (Gojjam), 0:7:5, 5030 km.
B55368	1	22.06.38	Diebowen, 53.46N 21.37E, now POLAND.
	X	21.06.39	Ponte sul Ghibbie, 8.55N 37.08 E, (Wolega), 1:0:0, 5173 km.
B60181	1	04.07.35	Hagenow, 53.27N 11.12E, Greifenberg, EAST GERMANY.
	+	(00.04.39)	Bejan Grande, 7.40N 36.49E, (Kaffa), (3:9:0), 5584 km.
B64056	1	26.06.36	Woosmer, 53.12N 11.10E, Mecklenburg, EAST GERMANY.
	+	07.04.40	Dessie, 11.07N 39.38E, (Wollo), 0:9:12, 5317 km.
BB5141	3	00.06.35	'Strickershagen', '30.05N 16.52E!'. [untraced, the co-ordinates are in Libya]
	+	29.01.37	Bonga, 7.15N 36.14E, (Kaffa), (1:7:0).
BB 12132	1	16.06.39	Wiesenberg, 52.24N 17.32E, now POLAND.
	+	02.05.40	Gulliso, 9.10N 35.30E, (Wolega), 0:10:16, 5071 km.
Sofia	1	26.06.33	Borisovo, 43.55N 25.59E, Russe, BULGARIA.
S12624	X winter	35/36	Lekempti, 9.05N 36.33E, (Wollega), 4003 km.
S20081	1	28.06.35	Krivina, 43.06N 25.21E, Svishtov, BULGARIA.
	X	00.00.35	Adua, 14.10N 38.54E, (Tigre), 3466 km.
S25674	1	12.07.36	Borisovo, BULGARIA.
	X	00.00.40	Neggio Nadseho, 9.29N 35.29E, (Wollega), 3935 km.
S34885	1	00.07.40	Borisovo, BULGARIA.
	X	22.11.40	Gewani, 10.05N 40.37E, (Harar), (0:4:0), 4015 km.
Varsovia	1	08.06.33	Nowa Huta Forest Range, 53.40N 18.25E, Bydgoszcz, POLAND.
B2282	+	00.12.33	Scire, 14.15N 38.15E, (Tigre), (0:6:0), 4711 km.
B522644	3	26.06.52	Tabory, 53.55N 19.31E, (Olsztyn), POLAND.
	/?/	00.06.53	400 km W of Addis Ababa in Illubabor Province, (9N 39E), (1:0:0), (5300 km).
B527337	1	27.06.59	Radziadz, 51.31N 16.58E, Wroclaw, POLAND.
	+	(09.12.60)	Eritrea or Tigre Province, (1:6:0).
B528813	1	15.06.60	Leszczewek, 54.14N 23.05E, Bialystok, POLAND.
	+	(09.12.60)	Eritrea or Tigre Province, (0:5:24).
B530360	1	09.07.58	Slowin, 53.01N 15.47E, Szczecin, POLAND.
	/?/	(06.12.58)	Alfelira, 14.30N 39.00E, (Eritrea), (0:4:27), 4742 km.
Zagreb	1	03.07.60	Idvor, 45.09N 20.36E, Kovacica, YUGOSLAVIA.
D105048	/?/	22.09.60	Saganeiti, 15.04N 39.12E, (Eritrea), 0:2:19, 3770 km.
D108847	1	20.06.63	Senta, 45.36N 20.05E, YUGOSLAVIA.
	+	00.10.63	Near Axum, (14N 38E), (Tigre), (0:4:0), 3893 km.
D103156	1	17.06.60	Aradac, 45.25N 20.24E, Zrcnjanin, YUGOSLAVIA.
	X	(21.12.60)	Agordat, 15.33N 37.53E, (Eritrea), (0:6:0) 3699 km.

D101789	3	16.06.54	Kadino Selo, 41.54N 21.40E, Makedonija, YUGO-SLAVIA.
	X	00.12.54	Sakala District, (11.10N 37.15N), Gojjam, (0:6:0), (3740 km).

*Notes:* *Helgoland* E2840: a second recovery card for this ring is held by Vogelwarte Helgoland (Tigre Province, 05.08.70), however, the data given above are correct, for I reported the ring myself. *Helgoland* 207671: there are two sets of data for this ring number; the first has been confirmed as correct by Helgoland, so that the second is presumably correct ringing and recovery data but recorded under the wrong ring number. *Helgoland* 238147: there are several localities by this name in Ethiopia, but this one in Tigre Province cannot be traced.

#### CICONIA NIGRA BLACK STORK

Rossitten	1	15.07.38	Rominter Heide, (54.23N 22.23E), now POLAND.
B62851	+ ♂	30.01.39	Entotto, 9.07N 38.45E, (Shoa), 0:6:15, (5240 km).
Varsovia	1	09.06.49	Budy Forest Range, 50.25N 22.04E, Rzeszow, POLAND.
B521404	/?/	07.01.50	50 km E of Gondar, 12.35N 37.28E, (Begemdir), 0:6:29, 4431 km.

B62851 is this species (*Vogelzug* 11: 24); the entry as *Ciconia ciconia* in *Vogelwarte* 15: 168 is an error.

#### PHOENICONAIAS MINOR LESSER FLAMINGO

BTO	1	02.11.62	Lake Magadi, 1.55S 36.18E, KENYA.
1032064	X	09.07.64	Sodere, 8.25N 39.23E, (Shoa), (1:8:8), 1198 km.

#### PHOENICOPTERUS RUBER GREATER FLAMINGO

Iran	1	06.08.71	Ashk Is., 37.25N 45.30E, Lake Rezaiyeh, Azarbaijan, IRAN.
LL1036	/?/	00.09.71	Begemdir and Simien Province.
Iran	1	07.08.71	Ashk Is, IRAN.
LL1509	/?/	00.09.71	Begemdir and Simien Province.
Iran	1	25.08.73	Dowguzlar Isles, 37.18N 45.40E, IRAN.
LL3620	+	15.01.74	Massawa, (15.30N 39.30E), (Eritrea), 0:5:10, (2500 km).

#### [NEOPHRON PERCNOPTERUS EGYPTIAN VULTURE ?

Moscow	?	?	?
A19813	+	early 03.70	Alamata, 12.26N 39.35E, Rayano Kobo, (Wollo).

The description of the recovered bird suggested this species, but no information could be obtained from the Moscow Ringing Office.

#### BUTEO BUTEO COMMON BUZZARD

Rossitten	3	00.06.08	Dassow, 53.55N 10.59E, Mecklenburg, EAST GERMANY.
1286	+	02.11.23	Makalle, 13.31N 39.28E, Tembien, (Tigre), 15:5:0, 5133 km.

The identification of this bird has been queried (*vide Orn. Monatsber.* 34: 86).

*MILVUS MIGRANS* BLACK KITE

FS11041	2	09.12.72	Gambela, 8.15N 34.35E, (Illubabor).
	( )	03.11.73	Kadogli, 11.00N 29.44E, Kordufan, SUDAN, 613 km, 0:10:25.
Varsovia	1	26.06.61	Bienowice, 51.16N 16.17E, Wroclaw, POLAND.
C29399	/?/	09.10.61	Near Dessie, 11.05N 39.40E, (Wollo), 0:3:13, 4942 km.

*PANDION HALIAETUS* OSPREY

Helsinki	1	29.06.64	Kullaa, 61.33N 22.07E, Järventausta, FINLAND.
M433	+	00.02.65	Adua, 14.10N 38.54E, (Tigre), (0:7:0), 5433 km.

*FALCO CHICQUERA* RED-NECKED FALCON

DS88423	2 ♂	07.12.72	Gambela, 8.15N 34.35E, (Illubabor).
	( )	04.03.74	Gambela, 1:2:25.

*TRINGA TOTANUS* REDSHANK

CJ05566	2	19.10.71	Lake Abiata, 7.36N 38.40E, (Shoa).
	v	19.12.71	Koka, 8.27N 39.06E, (Shoa), 0:2:0, 106 km.

*XENUS CINEREUS* TEREK SANDPIPER

Pretoria	6	25.02.73	Langebaan, 33.05S 18.02E, Cape, SOUTH AFRICA.
2-48356	v	21.04.76	Koka, 8.27N 39.06E, (Shoa), 3:1:27, 5125 km.

*CALIDRIS FERRUGINEA* CURLEW SANDPIPER

Pretoria	5	Jan/Apr 76	Langebaan, 33.05S 18.02E, Cape, SOUTH AFRICA.
-----	vv	14.06.76	Lake Abiata, 7.34N 38.34E, (Shoa), (0:2:0), 5011 km. (A sight record of a ringed and colour-dyed bird.)

*CALIDRIS MINUTA* LITTLE STINT

BP61799	2	22.01.76	Lake Langano, 7.34N, 38.51E, (Shoa).
	v	17.07.76	Lake Airkol, 48.28N 62.09E, Turgay Dolina, Kazakhstan, USSR, 0:6:25, 5044 km. Moscow K425413 added.

*PHILOMACHUS PUGNAX* RUFF

CN35959	2 ♀	31.10.70	Lake Abiata, 7.36N 38.40E, (Shoa).
	+	17.05.74	26 km from Yakutsk, 62.19N 129.50E, USSR, 3:7:17, 9314 km.
CN35992	2 ♀	01.11.70	Lake Abiata.
	/?/	(17.08.72)	Koka, 8.27N 39.06E, (Shoa), 1:9:16, 106 km.

*PLUVIANUS AEGYPTIUS* EGYPTIAN PLOVER

CJ06601	6	25.11.72	Gambela, 8.15N 32.38E, (Illubabor).
	v	25.08.75	Kosti, 13.11N 32.38E, Blue Nile, SUDAN, 2:9:0, 588 km.
CJ40966	5	23.04.75	Gambela.
	+	16.09.75	Khartoum, 15.33N 32.35E, SUDAN, 0:4:24, 840 km

**LARUS FUSCUS** LESSER BLACK-BACKED GULL

<i>Helsinki</i>	1	17.06.62	Vastamaa, 60.15N 26.13E, FINLAND.
C114775	+	00.08.62	Gore, 8.09N 35.32E, (Illubabor), (0:2:0), 5841 km.
<i>Helsinki</i>	1	28.06.64	Kustavi, 60.41N 21.03E, FINLAND.
H54378	X	17.10.64	Gambela, 8.36N 40.29E, (Harar), (0:3:20), 6007 km.
<i>Helsinki</i>	1	02.07.66	Pitkääkari, 60.48N 21.05E, Turku-Pori, FINLAND.
H65506	X	00.01.68	Lake Langano, 7.40N 38.45E, (Shoa), (1:5:0), 6084 km.
<i>Helsinki</i>	1	08.07.69	Mjölö, 60.06N 25.03E, (Uusimaa), FINLAND.
H105122	/?/	(15.06.70)	Archicho, 15.32N 39.28E, (Eritrea), (0:11:0), 5088 km.
<i>Helsinki</i>	1	06.07.71	Korkiainen, 60.24N 27.42E, (Kymi), FINLAND.
HT00601	X	27.02.72	Lake Tana, (12.00N 37.30E), 0:7:21, (5440 km).
<i>Stockholm</i>	1	08.07.62	Ängholmarna, 55.58N 14.26E, (Kristianstad), SWEDEN.
8003025	/?/	(27.10.62)	Wollega Province, (9N 35E), (0:3:0), (5500 km).

**STERNA CASPIA** CASPIAN TERN

<i>Helsinki</i>	1	02.07.66	Sköldharuklobb, 59.51N 23.39E, (Uusimaa), FINLAND.
H76493	X	00.00.67	Awasa, 7.10N 38.40E, (Sidamo), 5989 km.

**STREPTOPELIA TURTUR** TURTLE DOVE

DA10780	6	18.12.74	Koka, 8.27N 39.06E, (Shoa).
	+	15.09.76	Near Konstantinovskiy, 47.36N 41.06E, (Rostov), USSR, 1:8:28, 4354 km.
DS88081	2	30.10.70	Lake Abiata, 7.36N 38.40E, (Shoa).
	+	31.08.74	Near Voznesensk, 47.34N 31.20E, Ukraine, USSR, 3:10:1, 4495 km.

**CERYLE RUDIS** PIED KINGFISHER

CN35308	2	21.08.70	Gambela, 8.15 34.35, (Illubabor).
	X	early 09.71	Lake Kyoga, 1.38N 32.48E, near Alemere, UGANDA, (1:0:10), 761 km.

Two other Pied Kingfishers moved 14 km.

**HALCYON LEUCOCEPHALA** CHESTNUT-BELLIED KINGFISHER

CJ40224	3	04.10.74	Aseita, 11.34N 41.27E, (Harar).
	+	01.03.75	Zombo, 4.00S 39.25E, near Mombasa, KENYA, 0:4:25, 1744 km.
CN35522	4	16.10.70	Lake Abiata, 7.36N 38.40E, (Shoa).
	v	19.11.74	Masogo, 0.10S 34.51E, Kano Plains, near Kisumu, KENYA, 4:1:3, 961 km.

CN35522 was captured and bled in an American arbovirus study in Ethiopia, and was similarly treated in a British arbovirus study in Kenya: a remarkable coincidence.

**UPUPA EOPS** HOPOE

CN36341	2	06.03.71	Koka, 8.27N 39.06E, (Shoa).
	+	00.08.73	Az Zilfi, 26.15N 44.50E, SAUDI ARABIA, (2:5:0), 2068 km.



*JYNX TORQUILLA* EURASIAN WRYNECK

BP25712	2	06.11.73	Addis Ababa, 9.02N 38.46E.
	+	15.03.74	Addis Ababa, 0:4:9.

This bird was killed and stuffed by the finder.

*HIRUNDO RUSTICA* EURASIAN SWALLOW

HV16353	2	15.10.71	Lake Abiata, 7.36N 38.40E, (Shoa).
	X	17.05.74	Near Babayurt, 43.37N 46.44E, Dagestan, USSR, 2:7:2, 4078 km.
HV16460	2	16.10.71	Lake Abiata.
	v	24.05.73	Near Blagordarnoye, 45.06N 43.26E, Stavropol', USSR, 1:7:8, 4192 km.
HV16920	2	28.10.71	Lake Abiata.
	X	27.05.72	Near Belye Vody, 42.23N 69.49E, Chimkent, Kazakhstan, USSR, 0:6:29, 4922 km.
JX11109	4	18.04.76	Lake Langano, 7.34N 38.51E, (Shoa).
	X	19.05.76	Near Umar', 48.44N 30.15E, Cherkassy, Ukraine, USSR, 0:1:1, 4645 km.

*RIPARIA RIPARIA* SAND MARTIN

JK11274	4	20.05.75	Koka, 8.27N 39.06E, (Shoa).
	X	28.08.75	Near Magaramkent, 41.36N 48.22E, Dagestan, USSR, 0:3:8, 3795 km.

*ORIOLOUS ORIOLOUS* GOLDEN ORIOLE

CJ40254	3	06.10.74	Aseita, 11.34N 41.27E, (Harar).
	+	04.07.75	Vonan Village, 34.34N 50.54E, IRAN, 0:8:28, 2729 km.

*LUSCINIA MEGARHYNCHOS AFRICANA* NIGHTINGALE

JJ20410	3	13.09.75	Koka, 8.27N 39.06E, (Shoa).
	+	26.07.76	Near Yekhegnadzor, 39.55N 45.18E, Armeniya, USSR, 0:10:13, 3550 km.

*ACROCEPHALUS GRISELDIS* BASRA REED WARBLER

JS33684	4	19.09.75	Koka, 8.27N 39.06E, (Shoa).
	X	(01.02.77)	Chire, 16.42S 35.20E, Morumbala District, Zambezia, MOZAMBIQUE, (1:4:13), 2825 km.

*ACROCEPHALUS SCIRPACEUS* REED WARBLER

HV13605	2	18.04.70	Bahadu, 10.05N 48.37E, Gewani, (Harar).
	( )	03.09.73	Ahmadi, 29.05N 48.04E, KUWAIT, 3:4:16, 2112 km.

*SYLVIA ATRICAPILLA* BLACKCAP

HV17537	2♀	30.10.71	Lake Abiata, 7.36N 38.40E, (Shoa).
	+	10.09.72	Damascus, 33.30N 36.19E, SYRIA, 0:10:11, 2888 km.
JJ19430	2♀	20.11.72	Bulcha, 6.27N 38.11E, (Sidamo).
	/3/	02.05.73	Tripolis, 34.27N 35.49E, LEBANON, 0:5:12, 3121 km.

JJ21251	4♂	27.01.74	Bulcha.
	+	21.04.74	Beirut, 33.52N 35.29E, LEBANON, 0:2:25, 3059 km.
KC56497	4♂	01.04.77	Debre Mariam Is., 11.38N 37.25E, (Shoa).
	X	20.04.79	Near Baabda, 33.50N 35.40E, LEBANON, 2:0:19, 2473 km.

*MOTACILLA FLAVA* YELLOW WAGTAIL

JJ19245	2	24.10.72	Filwoha, 10.00N 40.33E, Mataka, (Harar).
	X	23.10.75	Near Talovaya, 51.06N 40.43E, Voronezh, USSR, 2:11:29, 4567 km.

Note the difference in migration dates in the two years.

*LANIUS NUBICUS* NUBIAN SHRIKE

BN54172	5♀	02.04.72	Koka, 8.27N 39.06E, (Shoa).
	X†	13.05.73	Shuaiba, 29.03N 48.10E, Mina al Ahmadi, KUWAIT, 1:1:11, 2477 km.

*STURNUS VULGARIS* EURASIAN STARLING

Helgoland	1	19.05.32	Althaus, 50.37N 17.51E, POLAND.
619337	+	12.06.36	Dessie, 11.07N 39.38E, (Wolo), 4:0:24, 4817 km.

The leg and ring of this bird were returned. It was the first record from south of the Sahara of a Eurasian Starling (Jitschin 1938). Mrs Ute Bechtloff of Vogelwarte Helgoland kindly investigated this record for me (*in litt.* 19.02.73) and confirmed that there seemed to be no error. The bird was shot, the leg and ring returned, together with a map showing the locality; it was confirmed also by the Italian Associazione Provinciale del Cacciatori, Firenze.

*CREATOPHORA CINEREA* WATTLED STARLING

CN36951	2	22.10.71	Lake Abiata, 7.36N 38.40E, (Shoa).
	+	17.01.73	Dukem, 8.49N 38.54E, (Shoa), 1:2:26, 138 km.

## ORTSTREUE

A total of 154 Palaearctic migrants of 29 species were retrapped in subsequent seasons, up to four or five years after the initial ringing. Some of these had clearly returned to previous winter quarters (e.g. *Sylvia mystacea*), but others of even more interest were returning to the same site on passage (e.g. *Acrocephalus griseldis*), indicating fidelity to migratory route. In the following list of species involved, the first figure refers to the number of seasons elapsed since ringing, and the figures in parentheses refer to the numbers of individuals involved each season. Eight birds were retrapped in more than one subsequent season, and these are detailed under month/year, where the first date shown is that of ringing:

<i>Charadrius alexandrinus</i> 2 (1)	4 (2); (one bird 10.73, 03.74, 04.76)
<i>Charadrius dubius</i> 1 (2)	<i>Calidris temminckii</i> 1 (2), 2 (4)
<i>Actitis hypoleucos</i> 1 (5), 2 (1), 3 (1), 4 (1)	<i>Philomachus pugnax</i> 1 (2)
<i>Tringa glareola</i> 1 (1), 3 (2), 4 (2), 5 (1); (one bird 12.71, 10.74, 09.75, another 12.71, 10.74, 09.76)	<i>Upupa epops</i> 1 (1), 2 (1)
<i>Calidris minuta</i> 1 (5), 2 (2), 3 (3),	<i>Jynx torquilla</i> 1 (1), 2 (1)
	<i>Luscinia luscinia</i> 1 (1), 2 (1)
	<i>Luscinia megarhynchos</i> 1 (21), 2 (3), 3 (3), 4 (2); (one bird 11.71, 10.72,

- L. megarhyncos*, contd.: 02.75; another 04.71, 02.73, 02.75)  
*Oenanthe pleschanka* 1 (1)  
*Phoenicurus phoenicurus* 1 (1), 2 (4), 3 (1)  
*Acrocephalus arundinaceus* 1 (1)  
*Acrocephalus griseldis* 1 (2), 2 (1);  
 (one bird 10.74, 09.75, 10.76)  
*Acrocephalus scirpaceus* 1 (8), 2 (6),  
 3 (1); one bird 01.71, 11.71, 10.72  
*Hippolais pallida* 1 (5), 2 (1), 4 (1)  
*Locustella luscinioides* 1 (2)  
*Sylvia atricapilla* 1 (1), 2 (1)  
*Sylvia borin* 1 (3)  
*Sylvia curruca* 2 (5)  
*Sylvia communis* 1 (6)  
*Sylvia mystacea* 3 (1)  
*Sylvia nisoria* 1 (1), 2 (2)  
*Anthus trivialis* 1 (1)  
*Motacilla alba* 1 (2)  
*Motacilla flava* 1 (10), 2 (4), 3 (4),  
 4 (1)  
*Lanius isabellinus* 1 (1), 2 (2); one  
 bird 03.71, 03.72, 02.73  
*Lanius nubicus* 1 (1), 2 (1).

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#### POSTSCRIPT

The following recovery was notified after the above was set.

#### CALIDRIS MINUTA LITTLE STINT

BP60178	2	21.10.74	Koka, 8.27N 39.06E, (Shoa).
	+	01.01.79	Suq Ash Shuyukh, 30.53N 46.28E, IRAQ, 4:2:11, 2607 km.

The following bird has been recovered but the details have not yet been received by the author.

#### CIRCAETUS GALLICUS PECTORALIS BLACK-CHESTED SNAKE EAGLE

1080714	6	04.05.76	Chifra, 11.39N 40.01E, (Wollo).
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